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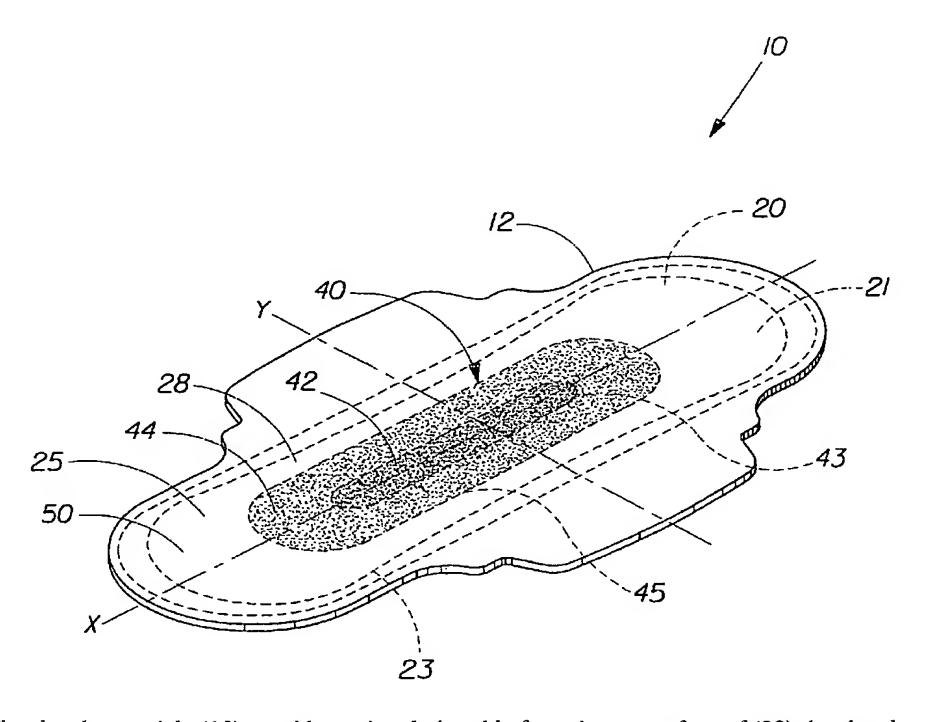
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[Continued on next page]

(54) Title: ABSORBENT ARTICLE



(57) Abstract: The absorbent article (10) provides a signal viewable from the top surface of (28) the absorbent article which gives a perception of depth within the absorbent article. This creation of depth perception is accomplished by the use of at least two tones (42, 44) within a color and/or by the use of multiple tones and multiple colors operating together to create a perception of depth within the absorbent article.

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ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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#### INTERNATIONAL SEARCH REPORT

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A. CLASS IPC 7	A61F13/15 B32B7/02				
According t	o International Patent Classification (IPC) or to both national	classification and IPC			
B. FIELDS	SEARCHED				
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	ternal, PAJ, WPI Data	data base and, where practical, search terms used	1)		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
X	WO 99 56690 A (LONG ISLAND JECEN) 11 November 1999 (1999-1 claims 1,2,6-11,14,15 page 2, line 1 - line 26 page 3, line 7 - line 20 page 4, line 16 - line 19 page 5, line 18 - line 26 page 9, line 26 -page 10, line 26 -page 9, line 26 -page 10, li	99 (1999-11-11) 1,15 ne 26 ne 20 ine 19 ine 26			
A	US 4 623 340 A (LUCERI THOMAS 18 November 1986 (1986-11-18) claims 1,7-10,18 column 2, line 6 - line 26 column 3, line 56 - line 59 column 5, line 14 - line 36 column 5, line 50 - line 58 column 6, line 13 - line 55	•	1-10		
Furth	er documents are listed in the continuation of box C.	Patent family members are listed in	n annex.		
'A' documer consider do filing da 'L' documen which is citation other me	t which may throw doubts on priority claim(s) or cited to establish the publication date of another or other special reason (as specified) at referring to an oral disclosure, use, exhibition or	or priority date and not in conflict with the cited to understand the principle or the invention  'X' document of particular relevance; the classing cannot be considered novel or cannot be involve an inventive step when the document of particular relevance; the classing cannot be considered to involve an inventional component is combined with one or more ments, such combination being obvious in the art.	the application but boy underlying the simed invention be considered to ument is taken alone simed invention entire step when the cother such docu-		
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Name and ma	iling address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Girard, S			

#### INTERNATIONAL SEARCH REPORT

PCT/US 02/40229

e ., 4

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 9956690 A	11-11-1999	US	6284942 B1	04-09-2001
		AU	3781999 A	23-11-1999
•	• •	WO	9956690 A1	11-11-1999
US 4623340 A	18-11-1986	AT	38770 T	15-12-1988
05 40E5540		AU	568682 B2	07-01-1988
and the second s		AU	3305584 A	21-03-1985
		BR	8404631 A	06-08-1985
		CA	1229201 A1	17-11-1987
		EP	0140560 A1	08-05-1985
		ES	292966 U	01-01-1987
	•	GR	80348 A1	17-01-1985
		HK	28589 A	14-04-1989
		IE	55688 B1	19-12-1990
		JP	1818576 C	27-01-1994
		JP	5024783 B	08-04-1993
		JP	60099249 A	03-06-1985
		MX	160535 A	19-03-1990
		NZ	209423 A	21-12-1990
		PT	79205 A ,B	01-10-1984
		SG	1689 G	02-06-1989
		ZA	8407288 A	30-04-1986
		ZW	15684 A1	16-04-1986